Disease Name Congenital Adrenal Hyperplasia

Acronym CAH

Disease Classification Endocrine Disorder

Symptom onset INFANTS WITH CAH DO NOT APPEAR ILL AT BIRTH, BUT MAY,

WITHIN THE FIRST FEW WEEKS OF LIFE, EXPERIENCE A SALT-LOSING CRISIS WHICH CAN LEAD TO SERIOUS ILLNESS AND

DEATH.

Symptoms Congenital adrenal hyperplasia (CAH) results from a deficiency in one or

another of the enzymes of cortisol biosynthesis. In about 95% of cases, 21-hydroxylation is impaired in the zona fasciculata of the adrenal cortex so that 17-hydroxyprogesterone (17-OHP) is not converted to 11-deoxycortisol. Because of defective cortisol synthesis, ACTH levels increase, resulting in overproduction and accumulation of cortisol precursors, particularly 17-OHP, proximal to the block. This causes

excessive production of androgens, resulting in virilization.

Natural history without treatment If untreated, children with CAH will experience abnormally rapid growth

early in childhood (but stunted in the long run) and early appearance of body hair. Babies with the salt-wasting form of CAH (about 75 percent of cases) are at risk for rapid, uncontrolled loss of salt from the body that can result in death. The imbalance of hormones before birth may cause

some girls to have ambiguous genitalia.

Treatment Daily supplements of the hormone cortisol, and in many cases a salt-

retaining hormone. To prevent problems, treatment must begin shortly

after birth.

Physical phenotype

Inheritance

General population incidence

Ambiguous genitalia in females

Autosomal recessive

1 in 21,500

OMIM Link http://www.ncbi.nlm.nih.gov/entrez/dispomim.cgi?id=201910

Genetests Link www.genetests.org

Support Group Congenital Adrenal Hyperplasia Research Education & Support

http://www.caresfoundation.org

MAGIC Foundation for Children's growth (MAGIC)

http://www.magicfoundation.org

National Organization for Rare Diseases

http://www.rarediseases.org

